



# SANT NANDLAL SMRITI VIDYA MANDIR, GHATSILA

## SYLLABUS –STD.VII

SESSION- 2025 – 26

SUBJECT - SCIENCE



MONTH	WD	No of classes	TOPICS TO BE TAUGHT	ACTIVITIES	LEARNING OUTCOMES	VALUES
APRIL	21	24	<b>Ch -1 Nutrition in plants</b> <ul style="list-style-type: none"><li>• Nutrition and modes of nutrition</li><li>• Photosynthesis (condition necessary for photosynthesis)</li><li>• Heterotrophic modes of nutrition</li><li>• Exercise</li></ul> <b>Ch-3Clothes materials – fibre to fabric</b> <ul style="list-style-type: none"><li>• Fibres and fabrics</li><li>• Natural and manmade fibres</li><li>• Wool and silk</li><li>• Exercise</li></ul> <b>Ch -4Heat and temperature</b> <ul style="list-style-type: none"><li>• What is heat</li><li>• How to determine hotness – temperature</li><li>• Clinical and laboratory thermometer</li><li>• Exercise</li></ul> Revision + periodic test 1	<p>To study growth of mould on bread</p> <p>To study the different level of life cycle of silk moth</p> <p>To study the temperature of hot water and cold water using laboratory thermometer</p>	<p>Learn different modes of nutrition Understand photosynthesis and factors affecting photosynthesis</p> <p>Learn the concept of fibres and fabrics Learn about rearing and breeding of sheep Know the difference between natural and manmade fibres</p> <p>Understand the term heat and different effects of heat</p>	<p>Mutual help, resource management.</p> <p>Strength of unity Patience Struggle for survival</p> <p>Consciousness Curiosity</p>
MAY	9	11	<b>Ch -2 Nutrition in animals</b> <ul style="list-style-type: none"><li>• Modes of nutrition in animals</li><li>• Nutrition in amoeba</li><li>• Human digestive system</li><li>• Digestion of food in ruminants</li><li>• Exercise</li></ul>	<p>To study the different regions of the tongue for tastes</p>	<p>Know types and modes of nutrition in amoeba and human beings Learn about teeth, their structure and care Study digestion of food in human</p>	<p>Team work Unity</p>



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JUNE	11	13	<b>Ch-5 Transfer of heat</b> <ul style="list-style-type: none"><li>• The flow of heat</li><li>• Conduction</li><li>• Convection</li><li>• Radiation</li></ul> <b>Ch-6 Acids , Bases and Salts</b> <ul style="list-style-type: none"><li>• Acids ( properties &amp; uses)</li><li>• Bases ( properties &amp; uses)</li><li>• Indicators</li><li>• Neutralization</li></ul>	To study the transfer of heat through conduction	Learn the different modes of transfer of heat Understand radiation and effect of radiation.	Awareness Responsibility
				To study the litmus test with acid and basic solution To demonstrate the process of neutralization reaction	Know what are acids, bases and salts Understand what is neutralization and what is its importance	Cooperation Consciousness Responsibility
JULY	26	30	<b>Ch- 18 Water – A natural resources</b> <ul style="list-style-type: none"><li>• Forms of water</li><li>• Water cycle</li><li>• Ground water ( importance and depletion )</li><li>• Water management</li></ul> periodic test 2 <b>Ch-8 Weather and Climate</b> <ul style="list-style-type: none"><li>• What is weather</li><li>• Elements of weather</li><li>• Climate</li><li>• Geographical factors affecting the climate</li></ul>	Poster making and slogan writing on the theme water is precious: save it	Understand water on the earth is present in all the three forms – solid , liquid and gas Understand the problems caused due to water shortage Know the cause of ground water depletion	Water conservation Cleanliness
				To note down the weather report of 15 days and prepare the graph for the temperature these days	Understand weather and how weather affects our lives Understand climate	Awareness Consciousness
AUGUST	24	28	<b>Ch-10 Wind , Storm and Cyclones</b> <ul style="list-style-type: none"><li>• Air and wind</li><li>• Thunderstorm</li><li>• Cyclones</li><li>• Tornadoes</li></ul> <b>Ch-9 Adaptation of animal to climate</b> <ul style="list-style-type: none"><li>• Adaptation</li><li>• Adaptation for desert life</li><li>• Adaptation in animals living in polar regions</li></ul>	Collect information on 5 devastating cyclones in India	Understand how winds are caused , thunderstorm and cyclones Know the precautions that can be taken during a thunderstorm , cyclones And tornado	Team work Cooperation Management equality
					Understand adaptation	Adaptability Adjusting to situations



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			<ul style="list-style-type: none"><li>Adaptation in animals living in tropical rainforest</li></ul>		Know adaptation of animals in different regions	
SEPT	21	15	Revision + Half yearly examination  <b>Ch – 12 Respiration in animals and plants</b> <ul style="list-style-type: none"><li>Aerobic and anaerobic respiration</li><li>Breathing in human beings</li><li>Respiration in other animals</li><li>Respiration in plants</li></ul>	To find out breathing rate under different conditions	Learn the necessity of respiration Understand aerobic and anaerobic respiration Distinguish between breathing and respiration	Team work Cleanliness
OCT	18	19	<b>Ch -7 Physical and Chemical change</b> <ul style="list-style-type: none"><li>physical change</li><li>chemical change</li><li>rusting of iron</li><li>Crystallisation</li></ul> <b>Ch- 15 Motion and Time</b> <ul style="list-style-type: none"><li>Motion</li><li>Measurements of time</li><li>Speed</li><li>Simple pendulum</li><li>Distance time graph</li></ul>	To show chemical change is an irreversible change  To study the time period of simple pendulum	Understand physical change and chemical change Study bursting and how it can be prevented  Learn the importance of measurement of time Define uniform and non uniform motion	Adaptability Cooperation  Time management Patience
NOV	23	20	<b>Ch – 13 Transportation in animals and plants</b> <ul style="list-style-type: none"><li>Transportation of materials</li><li>Circulatory system</li><li>Excretion in animals</li><li>Transport of substance in plants</li></ul> <b>Ch-11 soil</b> <ul style="list-style-type: none"><li>Layers of soil</li><li>Soil profile</li><li>Components of soil</li><li>Types of soil</li><li>Soil erosion</li></ul>	To feel own pulse and count the pulse rate To count the pulse rate of a friend  To study the different layer of soil	Know parts of circulatory system, blood, blood vessels and capillaries  Understand soil and it's importance Different layer of soil Components and different types of soil	Health management Consciousness  Resources management Curiosity Responsibility Awareness



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			Revision + periodic test 3			
DEC	19	21	<b>Ch – 14 Multiplication in plants</b> <ul style="list-style-type: none"><li>• Reproduction</li><li>• Asexual reproduction</li><li>• Vegetative reproduction</li><li>• Sexual reproduction</li><li>• Pollination and seed dispersal</li></ul> <b>Ch– 16 Electric current and it's effects</b> <ul style="list-style-type: none"><li>• Electric current</li><li>• The heating effect of current</li><li>• Magnetic effect of current</li></ul>	To study the parts of flowers  To make a circuit on combination of cells	Learn different modes of reproduction in plants Study various means of vegetative reproduction  Learn symbols to represent electric components Learn the application of heating and magnetic effect of current	Value life struggle for survival Awareness Cooperation Team work  Awareness Consciousness
JAN	22	24	<b>Ch- 19 Forest – the green Life line</b> <ul style="list-style-type: none"><li>• What is a forest</li><li>• Regions of forest</li><li>• Interdependence of plants and animals in forest</li><li>• Threats to forest</li><li>• Forest conservation and management</li></ul> <b>Ch – 17 light</b> <ul style="list-style-type: none"><li>• Light &amp; properties of light</li><li>• Mirrors and images</li><li>• Lenses ( convex and concave )</li><li>• Light and colours</li></ul> <b>Ch – 20 Dealing with waste water</b> <ul style="list-style-type: none"><li>• Waste water treatment</li><li>• Water pollution</li></ul>	Collect information about Chipko Andolan  To show that white light consists of seven different colours ( newton disc)  Think of some ways by which you can conserve water . Discuss them in the class and write them	To understand forest , it's importance and it's types Know interdependence of plants and animals Forest conservation and forest management  Characteristics of light Learn about spherical mirrors and their types and image formed  Understand the various uses of water Sewage and treatment of sewage	Conservation Interdependence  Curiosity Consciousness  Hygiene Awareness Responsibility
FEB	22	25	Revision + annual examination			

Subject Teacher: Gurdeep Kaur/ Sushma Bishayee

Principal